

CLAIMS

1. Communication method in an industrial automation facility (40; 70; 90), having a central control and information system (1) and a number of movable user terminals (13) having an information display, and where the control and information system has access to data bases (2) comprising extensive information of the industrial automation facility (40; 70; 90), comprising the step of:

providing said central control and information system (1) with an identification of a user of a first user terminal (13),

characterised by the further steps of:

determining a present location of said first user terminal (13);

selecting a data quantity from the databases (2) depending on at least both the identification (9) and the present location (11);

where the selected data quantity forms a reduced part of the extensive information about the industrial automated facility (40; 70; 90), adapted to the users specific needs.

communicating said data quantity from the central control and information system (1) to the first user terminal (13); and

presenting the first data quantity for said user on the information display of the first user terminal (13),

whereby the user is provided with most relevant facility information at each instant without taking active measures.

2. Communication method according to claim 1, **characterised in that** the selecting step is dependent also on at least one of:

- the history of communication to and from said first user terminal (13),
- the operational situation of said industrial facility (40; 70; 90), time, and
- date.

3. Communication method according to claim 1 or 2, **characterised by** the further steps of:

inputting data to the first user terminal (13); and

communicating the inputted data to said central control and information system (1);

whereby said selecting step being dependent also on the inputted data.

5 4. Communication method according to claim 3, **characterised in that** the inputted data is representative of a predetermined activity of the user.

5. Communication method according to claim 4, **characterised in that** the predetermined activity is selected from the list of:

0 maintenance;

supervision; and

education.

15 6. Communication method according to any of the claims 1 to 5, **characterised in that** communication to and from the first user terminal (13) is performed wireless.

20 7. Communication method according to claim 6, **characterised in that** the location determining step is performed in the first user terminal (13), and by the further step of communicating data representing the determined location to said central control and information system (1).

25 8. Communication method according to claim 6, **characterised in that** the location determining step is performed in the central control and information system (1).

9. Communication method according to any of the claims 1 to 5, **characterised in that** communication to and from the first user terminal (13) is performed via stationary connection blocks (28).

30 10. Communication method according to claim 9, **characterised in that** the location determining step in turn comprises the steps of:

determining which stationary connection block (28) the first user terminal (13) is connected to; and

relating the determined stationary connection block (28) to a physical location by a predetermined database.

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11. Communication method according to any of the claims 1 to 10, **characterised in that** the location determining step comprises the step of relating the first user terminal (13) to a zone (30; 30A-K) of predetermined spatial extent, whereby the selecting step being dependent on the identity of said zone (30; 30A-K).

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12. Communication method according to claim 11, **characterised in that** the predetermined spatial extent of said zone (30; 30A-K) is dependent on said user identification.

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13. Communication method according to any of the claims 1 to 12, **characterised in that** the selected data quantity comprises operational data of the industrial automation facility (40; 70; 90).

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14. Communication method according to any of the claims 1 to 13, **characterised by** the further step of communicating data to and/or from stationary user terminals.

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15. Communication method according to any of the claims 1 to 14, **characterised by** the further step of communicating data to and/or from external networks (63).

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16. Communication method according to any of the claims 1 to 15, **characterised by** the further step of relating the identification to at least one of:

authorisation profile;
education profile;
organisation position; and

priority.

17. Communication system in an industrial automation facility (40; 70; 90), comprising:

a central control and information system (1);

a number of movable user terminals (13) having an information display; and

identification providing means (9) for providing said central control and information system (1) with an identification of a user of a first user terminal (13);

whereby the central control and information system (1) having access to at least one database (2),

whereby the database (2) comprises extensive information about the industrial automation facility (40; 70; 90),

characterised by:

locator means (11) for determining of a present location of the first user terminal (13);

selector means for selecting a data quantity from said database (2), whereby selector means being connected to at least both said identification providing means and the locator means;

whereby the selected data quantity comprises a reduced part of the extensive information about the industrial automation facility (40; 70; 90), adapted to the users specific need; and

communication means for communicating the selected data quantity from said selector means to the first user terminal (13);

whereby the information display of the first user terminal (13) being arranged for presenting the selected data quantity for the user;

whereby said user is provided with most relevant facility information at each instant without taking active measures.

18. Communication system according to claim 17, **characterised in that** the selector means has access to additional information selected from the list of:

the history of communication to and from the first user terminal (13),
the operational situation of said industrial facility (40; 70; 90),
time, and
date.

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19. Communication system according to claim 17 or 18, **characterised in that** the first user terminal (13) further comprises means for inputting data and in that the communication means is arranged also for communicating data from said first user terminal (13) to the central control and information system(1), whereby the selector means having access to at least a part of the data from said first user terminal (13).
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20. Communication system according to claim 19, **characterised in that** the inputted data is representative of a predetermined activity of the user.
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21. Communication system according to claim 20, **characterised in that** the predetermined activity is selected from the list of:
maintenance;
supervision; and
20 education.

22. Communication system according to any of the claims 17 to 21, **characterised in that** the communication means is a wireless communication means.
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23. Communication system according to claim 22, **characterised in that** the first user terminal (13) comprises the locator means, the communication means being arranged to communicate data representing the determined location to the central control and information system (1).
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24. Communication system according to claim 22, **characterised in that** the central control and information system (1) comprises said locator means.

25. Communication system according to any of the claims 17 to 21, **characterised in that** the communication means comprises wires connected via stationary connection blocks (28).

5 26. Communication system according to claim 25, **characterised in that** the locator means in turn comprises:

means for determining which stationary connection block (28) the first user terminal (13) is connected to; and

10 means for relating the determined stationary connection block (28) to a physical location by a predetermined database.

15 27. Communication system according to any of the claims 17 to 26, **characterised in that** locator means comprises means for relating the first user terminal (13) to a zone (30; 30A-K) of predetermined spatial extent, said selector means having access to the identity of said zone (30; 30A-K).

20 28. Communication system according to claim 27, **characterised in that** the predetermined spatial extent of said zone (30; 30A-K) is dependent on said user identification.

25 29. Communication system according to any of the claims 17 to 28, **characterised in that** the selected data quantity comprises operational data of the industrial automation facility (40; 70; 90).

30 30. Communication system according to any of the claims 17 to 29, **characterised in that** the communication means is further arranged for communicating data to and/or from stationary user terminals.

31. Communication system according to any of the claims 17 to 30, **characterised in that** the communication means is further arranged for communicating data to and/or from external networks (63).

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32. Communication system according to any of the claims 17 to 31, **characterised in that** the database comprises means for relating said identification to at least one of:

authorisation profile;
education profile;
organisation position; and
priority.

33. A computer program product comprising computer code means and/or software code portions that when run on a computer or processor makes the processor carry out the steps of the method of any of the claims 1 to 16.

34. A computer program product according to claim 33 supplied via a network, such as Internet.

35. A computer readable medium containing a computer program product according to claim 33 or 34.
